

This listing of claims will replace all prior versions, and listings, of claims in the application:

The Status of the Claims

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled)
7. (Cancelled)
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14. (Canceled)
15. (Canceled)
16. (Canceled)
17. (Canceled)
18. (Canceled)
19. (Canceled)
20. (Canceled)
21. (Canceled)

22. (Previously Presented) A method of assembling an external cavity optical transmitter, the method comprising:

placing a lens mounted on an actuator on a substrate;

placing a gain chip on the substrate proximate the lens;

optimizing the placement of the lens along an optical axis, based on divergence of optical energy coupled through the lens;

placing a grating assembly on the substrate in a fixed manner;

placing a mirror on the substrate in a fixed manner to form a resonant cavity between the mirror and the gain chip;

enabling the gain chip to emit optical energy; and

changing a positional setting of the actuator to cause the lens to be translated to a position that yields a desired wavelength of operation.

23. (Original) A method as defined by claim 22, wherein changing the positional setting of the actuator comprises sending control signals to the actuator to cause the lens to be displaced in a plane perpendicular to the optical axis.

24. (Previously Presented) A method as defined by claim 22, further including placing an electro-optical crystal on the substrate.

25. (Original) A method as defined by claim 22, further including adjusting a tilt position of the mirror to affect a wavelength of operation.

26. (Original) A method as defined by claim 22, further including testing a wavelength of operation at various locations in an operating frequency band.